SHEVYAKOV, A.

The detection of military targets by heat. No 8.

Tankist, No 12, 1948.

SHEVYAKOV, A., inzhener-podpolkovnik

Seeing in the dark. Starsh.-serzh. no.7:37 Jl '61. (MIRA 14:9)
(Night vision)

Shevyakov, N.A.

BODNER, Vasiliy Afanas'yevich; ZAYTSEVA,K.Ya., inzhener, redaktor; SHEVYAKOV,A.A., kandidat tekhnicheskikh nauk, retsenzent; BOGOMOLOVA,M.P., redaktor; GLADKIKH,N.N., tekhnicheskiy redaktor

[Automatic control of airplane motors] Avtomatika aviatsionnykh dvigatelei. Izd. 2-e, ispr. i dop. Moskva, Gos.izd-vo obor. promyshl., 1956. 400 p. (MLRA 9:4)
(Airplanes—Motors)

SHEVYAKOV, Aleksey Andreyevich, Ed.

Avtomaticheskoye Regulirovaniye Aviadvigateley; Sbornik Statey. Moskva, Oborongiz, 1959-
v. Illus., diagrs., graphs, tables
Includes Bibliographies.

BRASLAVSKIY, D.A., kand.tekhn.nauk; GOL'DFARB, L.S., doktor tekhn.nauk; GUZENKO, A.I., kand.tekhn.nauk; DMITRIYEV, K.Ye., kand.tekhn.nauk; KALASHNIKOV, V.A., inzh.; KLOBUKOV, P.P., kand.tekhn.nauk; KLUBNIKIN, P.F., kand.tekhn.nauk; KRASSOV, I.M., kand.tekhn.nauk; PEL'POR, D.S., doktor tekhn.nauk; PETROV, V.V., kand.tekhn.nauk; ROZENBLAT, M.A., doktor tekhn.nauk; RUZSKIY, Yu.Ye., kand.tekhn. nauk; SADOVSKIY, B.D., kand.tekhn.nauk; SOKOLOV, A.A., kand.tekhn. nauk; TITOV, V.K., kand.tekhn.nauk; ULANOV, G.M., kand.tekhn.nauk; FILIPCHUK, Ye.V., kand.tekhn.nauk; KHARYBIN, A.Ye., kand.tekhn. nauk; KHOKHLOV, V.A., kand.tekhn.nauk; GALTEYEV, F.F., kand.tekhn. nauk, retsenzent; KARASEV, V.A., doktor tekhn.nauk, retsenzent; RAGOZIN, Yu.D., kand.tekhn.nauk, retsenzent; REYNGOL'D, Yu.R., inzh., retsenzent; RYABOV, B.A., doktor tekhn.nauk, retsenzent; SAYBEL', A.G., kand.tekhn.nauk, retsenzent; SHEVYAKOV, A.A., kand.tekhn.nauk, retsenzent; SOLODOVNIKOV, V.V., prof., doktor tekhn.nauk, red.; VITENBERG, I.M., kand.tekhn.nauk, nauchnyy red.; MOLDAVER, A.I., kand.tekhn.nauk, nauchnyy red.; POLYAKOV, G.F., red.izd-va; AKIMOVA, A.G., red.izd-va; KONOVALOV, G.M., red.izd-va; TIKHONOV, A.Ya., tekhn. red.; SOKOLOVA, T.F., tekhn.red.

[Fundamentals of automatic control] Osnovy avtomaticheskogo regulirovaniia. Vol.2. [Elements of automatic conrol systems] Elementy sistem avtomaticheskogo regulirovaniia. Pt.1. [Sensing devices, amplifiers, and actuators] Chuvstvitel'nye, usilitel'nye i ispolnitel'nye elementy. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. 1959. 722 p. (MIRA 12:4)
(Automatic control) (Electronic apparatus and appliances) (Electronic calculating machines)

SHEVYAKOV, A.A., red.; BUMSHTEYN, S.I., inzh., red.; GORTSUYEVA, N.A., izdat.red.; PUKHLIKOVA, N.A., tekhn.red.

[Automatic control of aircraft engines; collected articles] Avtomaticheskoe regulirovanie aviadvigatelei; sbornik statei. Moskva, Gos.izd-vo obor.promyshl. No.1. 1959. 182 p. (MIRA 12:11)

(Airplanes--Engines) (Automatic control)

SHEVYAKOV, A.A., red.; GRIGORASH, K.I., red.; GARNUKHINA, L.A., tekhn.red.

[Automatic control of airplane engines] Avtomaticheskoe regulirovanie aviadvigatelei; sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo Oborongiz. No.2. 1960. 134 p. (MIRA 13:11)
(Airplanes--Engines) (Automatic control)

SHEVYAKOV, Aleksey Andreyevich; MASLENNIKOV, M.M., prof., doktor tekhn. nauk, retsenzent; ZLATOUSTOV, S.V., dotsent, retsenzent; KONONOV, P.A., dotsent, retsenzent; YANOVSKIY, I.L., inzh., red.; MOROZOVA, P.B., izdat.red.; ROZHIN, V.P., tekhn.red.

[Automatic control of airplane power plants] Avtomatika aviatsionnykh silovykh ustanovok. Moskva, Gos.izd-vo obor.promyshl., 1960. 372 p. (MIRA 13:2)
(Airplanes--Engines) (Automatic control)

34389
S/682/61/000/003/003/008
D234/D302

26.2260

AUTHORS: Shevyakov, A.A. and Yakovleva, R.V.

TITLE: On the problem of automatic control of a power installation

SOURCE: Avtomaticheskoye regulirovaniye aviadvigateley; sbornik statey. no. 3, 1961, 51 - 65

TEXT: The authors consider a power installation operating on nuclear fuel, the structure of the installation being different from that given in a publication by M. Shults (Regulirovaniye energeticheskikh yadernykh reaktorov Control of Nuclear Power Reaktors , IL, 1957). The equations of motion of the installation are formulated and reduced to matrix form. The study is restricted to the case of an installation consisting of a reactor and a turbo-compressor unit which actuates a generator, with a numerical example of the parameters. Differential equations of control devices for the installation and the transfer function of the power regulator (for the reactor

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On the problem of automatic ... D234/D302

circuit) are deduced. Graphs for transition processes are given.
There are 7 figures, 2 tables and 1 non-Soviet-bloc reference.

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SHEVYAKOV, A.A.; YAKOVLEVA, R.V.

Automatic control of a power plant. Avtom.reg.aviadvig. no.3:51-65 '61. (MIRA 14:12)

(Nuclear reactors)
(Automatic control)

S/682/62/000/004/001/006
D234/D308

AUTHORS: Shevyakov, A.A. and Yakovleva, R.V.

TITLE: Dynamical characteristics of a tubular heat exchange device

SOURCE: Avtomaticheskoye regulirovaniye aviadvigateley; sbornik statey, no. 4, Moscow, 1962, 5-18

TEXT: The authors deduce an approximate transfer function of a heat exchange device described by a system of partial differential equations, with variable coefficients. The device includes pipes through which the cold air and between which the hot liquid flows. For one-dimensional problems, the solution of a partial differential equation is approximated to that of a simplified linear differential equation of first order with retardation. Results of an experimental determination of the dynamical characteristics of the device are given in graphs and compared with theoretical results obtained from the approximate transfer function. There are 5 figures.

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Shevyakov, Aleksey Andreyevich

Automatic control of aircraft and rocket power plants (Avtomatika aviatsionnykh i raketnykh silovykh ustanovok) 2d ed., rev. and enl. Moscow, Izd-vo "Mashinostroyeniye", 1965.5 546 p. illus., biblio. 5000 copies printed. Textbook for mechanical engineering and aeronautics institutes and faculties.

TOPIC TAGS: aircraft engine, automatic regulation, engine control, liquid rocket engine, nuclear power plant, ramjet engine, safety, turbojet engine, turboprop engine

PURPOSE AND COVERAGE: First published in 1960, this second-edition, revised and enlarged, textbook is intended for aeronautical schools of higher education, and may also be useful to engineers and scientific workers. The book, based partly on the author's own work, deals with automatic regulation and control of aircraft and rocket power plants, discusses control systems used in turbojet, turboprop,

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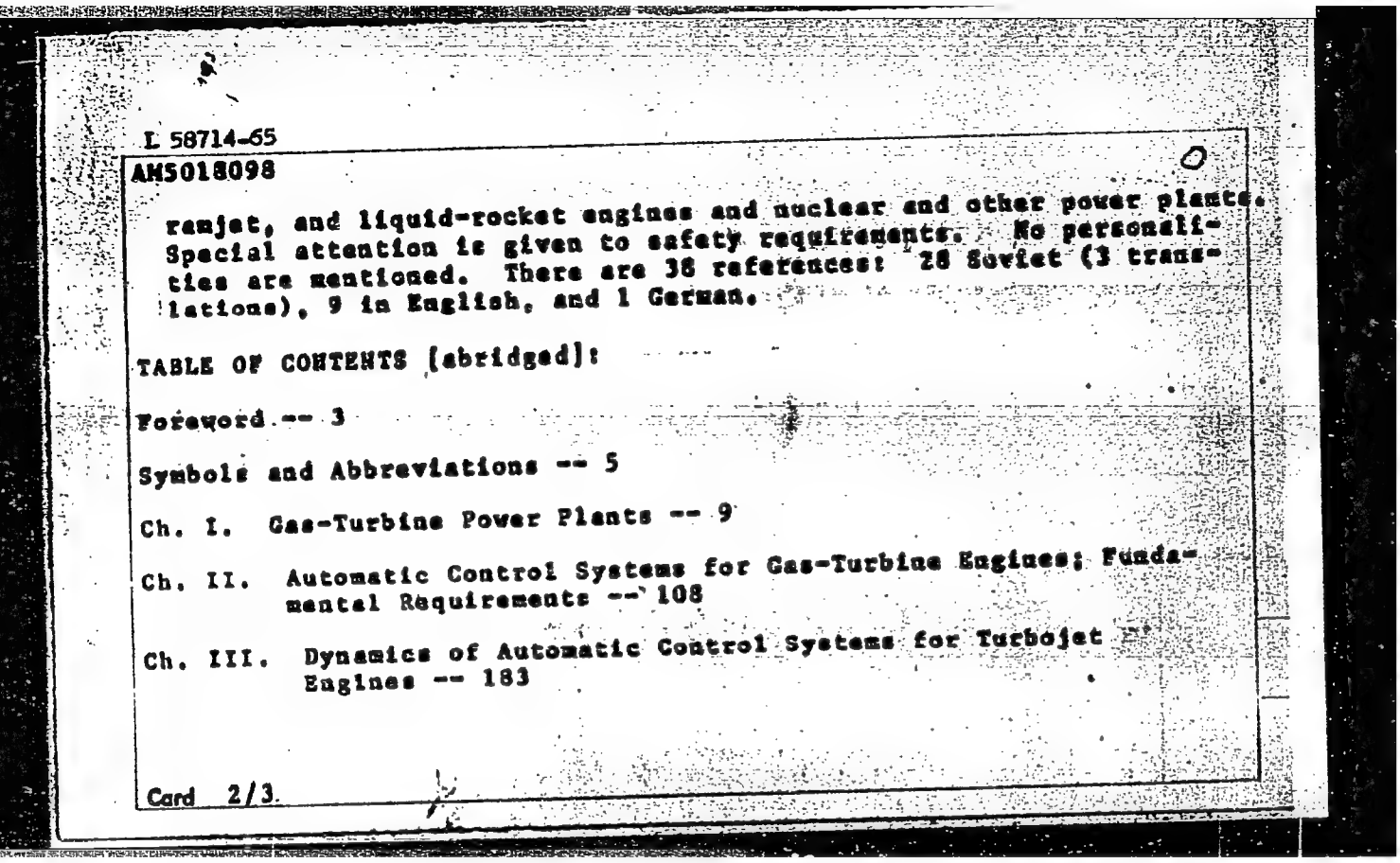

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ramjet, and liquid-rocket engines and nuclear and other power plants. Special attention is given to safety requirements. No personalities are mentioned. There are 38 references: 28 Soviet (3 translations), 9 in English, and 1 German.

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SUB CODE: PR SUBMITTED: 24Mar65 NO REF SOV: 024

OTHER: 014

Card 3/3 dap

SHEVYAKOV, Aleksey Andreyevich; ZAYTSEVA, K.Ya., inzh., red.

[Automatic control of aircraft and rocket power plants] Avtomatika aviatsionnykh i raketnykh silovykh ustanovok. Izd.2., perer. i dop. Moskva, Mashinostroenie, 1965. 546 p. (MIRA 18:5)

SHEVYAKOV, A.D., Cand Agr Sci—(diss) "Soil-agrochemical charts of the kolkhozes of the Yefremovskaya MTS of Tul'skaya Oblast and its utilization for the rational employment of fertilizers." Mos, 1958. 15 pp (Mos Order of Lenin Agr Acad im K.A. Timiryazev), 110 copies (KL,25-58,117)

-116-

ABRAMOV, L.T., kand.tekhn.nauk; KOCHEROVA, N.D., inzh.; SHEVYAKOV, A.I., inzh.

Efficiency of the measures applied for heaving control. Vest.TSNII MPS 22 no.1:62-63 '63. (MIRA 16:4)
(Soil stabilization) (Railroads—Track)

TOROPOV, N.A.; FEDOROV, N.F.; SHEVYAKOV, A.M.

Infrared absorption spectra of polymorphic modifications of dicalcium silicate. Zhur.neorg.khim. 8 no.1:69-71 Ja '63. (MIRA 16:5)

(Calcium silicates--Spectra)

TOROPOV, N.A.; FEDOROV, N.F.; SHEVYAKOV, A.M.

Infrared absorption spectra of the orthosilicates of some bivalent elements. Zhur. neorg. khim. 8 no.6:1342-1344 Je '63. (MIRA 16:6)

(Silicates—Absorption spectra)

KUZNETSOVA, G.N.; FEDOROV, N.F.; SHEVYAKOV, A.M.

Infrared transmission spectra of cement clinker minerals and their hydration products. Zhur. prikl. khim. 37 no.12:2585-2590 D '64. (MIRA 18:3)

[redacted], G.M.; SHIRYAYEV, M.F.; KUSHINA, A.I.; [redacted]

Infrared spectroscopic study of the products of chemical reaction between aluminum ions and polysilicic acid. Zhur. prikl. khim. 37 no.12:2746-2748 D '64. (MIRA 18:3)

SHEVYAKOV, A.M.; ZUSEVA, N.A.

Use of the infrared spectroscopy method in studying the reaction of silicic acid with heavy metal ions. Zhur. prikl. spekt. 2 no.6:510-514 Je '65. (MIRA 18:7)

KUZNETSOVA, G.N.; KHEYFETS, V.S.; SHEVYAKOV, A.M.

Infrared spectra and structural characteristics of glasses of the system $Na_2O - B_2O_3 - ZrO_2 - SiO_2$. Zhur. prikl. spekt. 3 no. 2:151-155 Ag '65. (MIRA 18:12)

1. Submitted Nov. 17, 1964.

Shevyakov, B.V.

3(5) PHASE I BOOK EXPLOITATION SOV/2077

Akademiya nauk Belorusskoy SSR, Minsk. Institut geologicheskikh nauk

Trudy, Vyp. 1 (Transactions of the Institute of Geological Sciences of the Belorussian SSR Academy of Sciences) Nr 1. Minsk, 1958. 227 p. 700 copies printed. Errata slip inserted.

Editorial Board: A.N. Avksent'yev, A.V. Fursenko, and V.N. Shcherbina; Ed. of Publishing House: Ye. G. Barabanova; Tech. Ed.: I. Volokhanovich.

PURPOSE: This issue of the Institute's Transactions is intended for geologists interested in both the physical and historical geology of Belorussia.

COVERAGE: This collection of articles on the geology of Belorussia has been prepared by members of that republic's Geological Institute. Individual papers discuss the prospects of future development of Belorussia's geological and geophysical studies, problems in the petrography of sedimentary rocks, and questions in paleontology and hydrogeology. Among the papers on historical geology are a study of the development of Formainifera and one on spore-pollen analysis of Lower Carboniferous horizons. References accompany each article.

Transactions of the Institute (Cont.) SOV/2077

AVAILABLE: Library of Congress (QE1.A376)

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SHCHEGLOVA, V.V. [Shchaglova, V.V.]; SHEVYAKOV, B.V. [Shaviakou, B.V.]

Discovery of mammoth remains in Riss sediments in White Russia. Vestsi AN BSSR.Ser.fiz.-tekh.nav. no.4:127-130 '59. (MIRA 13:4)
(Petrikov(Gomel' Province)--Mammoth)

SHEVYAKOV, F.

"Studying the topic "Geography of heavy industry in the U.S.S.R. in the ninth grade of schools for working youth" by T. Nechaeva. Reviewed by F. Sheviakov. Geog. v shkole 25 no.1:89-90 Ja-F '62. (MIRA 15:1)
(Geography, Economic--Study and teaching)
(Nechaeva, T.)

SHEVYAKOV, F.D., gornyy inzh.; PANCHENKO, V.G., gornyy inzh.

Use of the chamber and pillar mining method in Artemov lignite deposit mines. Ugol' 32 no.10:11-14 O '57. (MIRA 10:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut, trest Artemugol'.
(Kuznetsk Basin--Coal mines and mining)
(Lignite)

SHEVYAKOV, F.D., inzh.

Efficient prevention of soil heaving in mines. Bezop.trudа v prom. 3 no.2:26-28 F '59. (MIRA 12:2)
(Mining engineering--Safety measures)

SHEVYAKOV, F.D., inzh.

Shortwall mining of thin steeply pitching coal seams in French mines. Ugol' Ukr. 3 no.9:44-45 S '59. (MIRA 13:2)
(France--Coal mines and mining)

SHEMYAKOV, F. D., Cand Tech Sci -- (diss) "Research into the sudden discharge of coal and gas from the gently sloping layers of the Donbass in connection with the search for safe methods of their exploitation." Moscow, 1960. 27 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Dnepropetrovsk Order of Labor Red Banner Mining Inst im Artema); 200 copies; price not given; (KL, 50-60, 134)

SHEVYAKOV, F.D.

Problem of mining flat Donets Basin coal seams dangerous at to sudden coal and gas outbursts. Ugol' 35 no.3:32-36 Mr '60. (MIRA 13:6)
(Donets Basin--Coal mines and mining)

SHEVYAKOV, F.D., kand.tekhn.nauk

Use of coal plows in gas and coal outburst hazardous flat seams.
Ugol' Ukr. no.6:36-37 Je '61. (MIRA 14:7)

1. Institut gornogo dela AN SSSR.
(Coal mining machinery)

SHEVYAKOV, F.D., gornyy inzh.

New method for the control of sudden gas and coal outbursts in the mines of Hungary. Ugol' Ukr. 5 no.2:42-43 F '61. (MIRA 14:3)
(Hungary—Mining engineering)

SHEVYAFOV, F.D., kand.tekhn.nauk

Control of sudden coal and gas outbursts in mines abroad. Bezop.-truda v prom. 5 no.12:35-36 D '61. (MIRA 15:1)

1. Institut gornogo dela im. A.A.Skochinskogo.
(Coal mines and mining--Safety measures)

KHODOT, V.V., doktor tekhn. nauk, red.; BOBROV, I.V., kand. tekhn. nauk, red.; RUDCHENKO, V.P., red.; TABAKOV, A.G., red.; SHCHUKIN, V.R., red.; KULIKOV, A.P., red.; ANDROSOV, M.S., otv. red.; SHEVYAKOV, F.D., otv. red.; POTAPOV, V.I., otv. red.; PRETYSLER, Yu.S., otv. red.; VINOGRADOVA, G.V., red. izd-va; IL'INSKAYA, G.M., tekhn. red.; BOLDYREVA, Z.A., tekhn. red.

[Control of sudden outbursts in coal mines; proceedings of the scientific and technical conference held in Donets in December 1960]Bor'ba s vnezapnymi vybrosami v ugol'nykh shakhtakh; sbornik trudov nauchno-tekhnicheskogo soveshchaniia, sostoiavshegosia v gor. Donetske v dekabre 1960 g. Moskva, Gosgortekhizdat, 1962. 602 p. (MIRA 15:9)

1. Institut gornogo dela imeni A.A.Skochinskogo (for Khodot). 2. Kombinat "Donetskugol'" (for Rudchenko). 3. Gosudarstvennyy komitet pri Sovete Ministrov Ukrainskoy SSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru, Donetskiy okrug (for Shchukin).
(Coal mines and mining—Safety measures)

KARAGODIN, Leonid Nikolayevich; SHEVYAKOV, F.D., retsenzent

[Complex of measures for controlling sudden outbursts in the lavas of gently sloping beds] Kompleks meropriiatii po bor'be s vybrosami v lavakh pologikh plastov. Moskva, Nedra, 1964. 73 p. (MIRA 17:8)

SHEVYAKOV, F.N.

Problems of teaching geography in evening (night shift) secondary schools of general education. Geog.v shkole 22 no.6:47-51 N-D '59. (MIRA 13:4)
(Geography--Study and teaching)
(Evening and continuation schools)

SHEVYAKOV, F.N. (Moskva)

Work under new program in the fifth grade of the evening school.
Geog. v shkole 23 no.4:27-30 Jl-Ag '60. (MIRA 13:10)
(Physical geography--Study and teaching)

SHEVYAKOV, F.N. (Moskva)

How to work in the fifth grade of evening schools using the new program. Geog. v shkole 24 no. 1:53-57 Ja-F '61. (MIRA 14:2)
(Geography—Study and teaching)

SAMOYLOV, Innokentiy Ivanovich; BIBIK, Antonina Yefimovna; SHEVYAKOV, Filipp Nikolayevich; PADEZHNOV, A.I., red.; NOVOSELOVA, V.V., tekhn. red.

[Problems of teaching economic geography in evening (staggered) school] Voprosy prepodavaniia ekonomicheskoi geografii v vechernei (smennoi) shkole. Moskva, Izd-vo APN RSFSR, 1962. 68 p. (MIRA 15:9)

(Economic geography—Study and teaching)

SHEVYAKOV, Filipp Nikolayevich; ZASLAVSKIY, Iosif Ivanovich; FISHCHEVA, T.V., red.; BORISKINA, V.I., red.kart; TATURA, G.L., tekhn. red.

[Physical geography; textbook for the fifth grade of the evening (shift) school]Fizicheskaia geografiia; uchebnoe posobie dlia 5 klassa vechernei (smennoi) shkoly. Moskva, Uchpedgiz, 1962. 135 p. (MIRA 15:10)

(Physical geography)

SHEVYAKOV, F.N.

Simple means for calculating the distance between points according to their coordinates. Geog. v shkole 26 no.6:45-46 N-D '63.
(MIRA 17:1)

SKACHKOV, Semen Andreyevich; SERGEYEV, V.; SHEVYAKOV, G.; INOZEMTSEV, N.N., red.; KORIONOV, V.G., red.; KHARLAMOV, M.A., red.; KOLOMIYTSEV, V., red.; KONOVALOVA, L., tekhn. red.

[Aid and cooperation in the name of peace; Soviet economic cooperation with the countries of Asia, Africa, and Latin America]Pomoshch' i sotrudnichestvo vo imia mira; ekonomicheskoe sotrudnichestvo SSSR so stranami Azii, Afriki i Latinskoi Ameriki. Moskva, Gospolitizdat, 1962. 54 p. (MIRA 15:11)

(Economic assistance)

FRUMIN, I.L.; ROZANOV, K.P., inzh., retsenzent; BOGDANOVICH, Ya.M., inzh., retsenzent; SHEVYAKOV, G.N., inzh., red.; POPOLOV, Ya.N., red. izd-va; SOKOLOVA, T.P., tekhn. red.

[Production capacity of machinery manufacturing plants and production potentialities; practices of machinery manufacturing plants engaged in mass production] Proizvodstvennaia moshchnost' mashinostroitel'nogo zavoda i rezervy proizvodstva; iz opyta mashinostroitel'nykh zavodov massovogo i krupnoseriinogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 58 p.
(Machinery industry) (MIRA 11:7)

DEMENT'YEV, Yuriy Petrovich; SHEVYAKOV, G.N., otv.red.; KOZLOVSKAYA, G.M., red.izd-va; MIKHLINA, L.T., tekhn.red.

[The Republic of Mali; political and economic study] Respublika Mali; politiko-ekonomicheskii ocherk. Moskva, Izd-vo vostochnoi lit-ry, 1962. 89 p. (MIRA 15:5)
(Mali--Politics and government)
(Mali--Economic geography)

L 7004-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)
ACC NR: AP5026820 SOURCE CODE: UR/0286/65/000/017/0095/0096

INVENTOR: Nechayev, Yu. A.; Vlasenko, V. P.; Shevyakov, G. Ye.

ORG: none

TITLE: A pulsed ultrasonic thickness gauge. Class 42, No. 174453 [announced by Volgograd Scientific Research Institute of Machine Building Technology (Volgogradskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 95-96

TOPIC TAGS: ultrasonic inspection, electronic measurement

ABSTRACT: This Inventor's Certificate introduces a pulsed ultrasonic thickness gauge designed chiefly for measuring the thickness of metal and plastic components for the case of unilateral access to the object being measured. The instrument contains a high-frequency radiator, a receiving device and an electronic measurement circuit. To improve accuracy and facilitate measurement, and to make the instrument portable, the gauge has a flip-flop stage with a square pulse generator and a probe for reception of the echo pulse connected at the inputs, while a measurement bridge

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ACC NR: AP5026820

circuit is connected to the output. This circuit has a needle indicator for direct reading of the quantity being measured without changing the adjustment of the instrument for each measurement.

SUB CODE: EC,IE/ SUBM DATE: 18Feb63/ ORIG REF: 000/ OTH REF: 000

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Card 2/2

SHEVYAKOV, Lev Dmitriyevich DECEASED 1964

MINING OF MINERAL DEPOSITS 1963

SHEVYAKOV, L.D., akademik; ROZENTRETER, B.A., doktor tekhn. nauk

Review of the scientific technological collectior "Transportation in miner and strip mines in socialist countries." Ugol' 38 no.1:61-62 Ja '63. (MIRA 18:3)

112-1-1400

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 214 (USSR)

AUTHOR: Shevyakov, L.N.

TITLE: Principal Trends in the Field of Automation of Forging-and-Stamping Production (Printsipial'nyye napravleniya v oblasti avtomatizatsii kuznechno-shtampovochnogo proizvodstva)

PERIODICAL: Sbornik: Avtomatizatsiya tekhnol. protsessov v mashinostr. Goryachaya obrabotka metallov. Moscow, AN SSSR, 1955, pp.35-43.

ABSTRACT: Bibliographic entry

Card 1/1

58/49T55

SHEVYAKOV, M. D.

USSR/Engineering Jun 49
Bushings
Electric Power

"Moisture on Insulation in High-Voltage, Oil-Filled Bushings and Their Design Requirements," M. D. Shevyakov, Cand Tech Sci, Leningrad Electrotech Inst imeni V. I. Ul'yanov-Lenin 4 pp

"Vest Elektro-Prom" Vol XX, No 6

Develops method to determine operating characteristics of bushings and effects of moisture. Analyses 66, 110, and 154 bushings for different spacing of bushing cylinders and show effect on angle of loss of a dielectric. Describes features of several commercially produced bushings (oil-expansion and moisture-interchange types) and techniques of hermetic sealing.

58/49T55

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.; BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVOY, G.A.; BULEV, M.Z.; BURAKOV, N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.; GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT, Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.; GORBACHEV, V.N.; GRZHIB, B.V.; GREKULOV, L.F., kand. s.-kh. nauk; GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO, Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK, A.P.; ZENKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.; KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.; KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.; KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.; LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSKEVICH, K.F.; MEL'NICHENKO, K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk; MUSIYEVA, R.F.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.; OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN, G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMEZOV, N.P.; ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.; RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.; SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY, Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA, Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.; TSISHEVSKIY, P.M.; CHEBKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN, N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA, I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.
Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIOSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRAZKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.P., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; KUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER,
(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.
Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N., tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHKOVSKIY, N.V., tekhn. red.

[Volga-Don; technical account of the construction of the V.I. Lenin Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center, and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSimlianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk. Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of construction. Specialized operations in hydraulic engineering] Organizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 4.
Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.
(MIRA 11:9)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-korrespondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin, Razin).
(Volga Don Canal--Hydraulic engineering)

BEREZINSKIY, A.R., prof., doktor tekhn.nauk; SOKOLOVA, V.F., mladshiy nauchn.sotrudnik; ALIPOV, V.V., mladshiy nauchn.sotrudnik. Prinimali uchastiye: CHERNIKEVICH, L.A., inzh.; SHEVYAKOV, M.N.; THSEPKE, V.F., inzh.. GRISHIN, M.M., prof., doktor tekhn. nauk, retsenzent; STANKEVICH, V.I., inzh., red.; BORSHCHEVSKAYA, N.M., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.

[Using precast reinforced concrete in hydraulic engineering structures] Primenenie sbornogo zhelezobetona v gidrotekhnicheskikh sooruzheniiakh. Pod red. A.R.Berezinskogo. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 430 p. (MIRA 12:8)

1. Giprovodkhoz (for Chernikevich). 2. Gidroproyekt (for Shevyakov).
(Hydraulic engineering)
(Precast concrete construction)

L 6920-66 EWT(1) GW

ACCESSION NR: AR5009016 S/0269/65/000/002/0077/0077

SOURCE: Ref. zh. Astronomiya. Otd. vyp., Abs. 2.51.563

AUTHOR: Shevyakov, N. A.

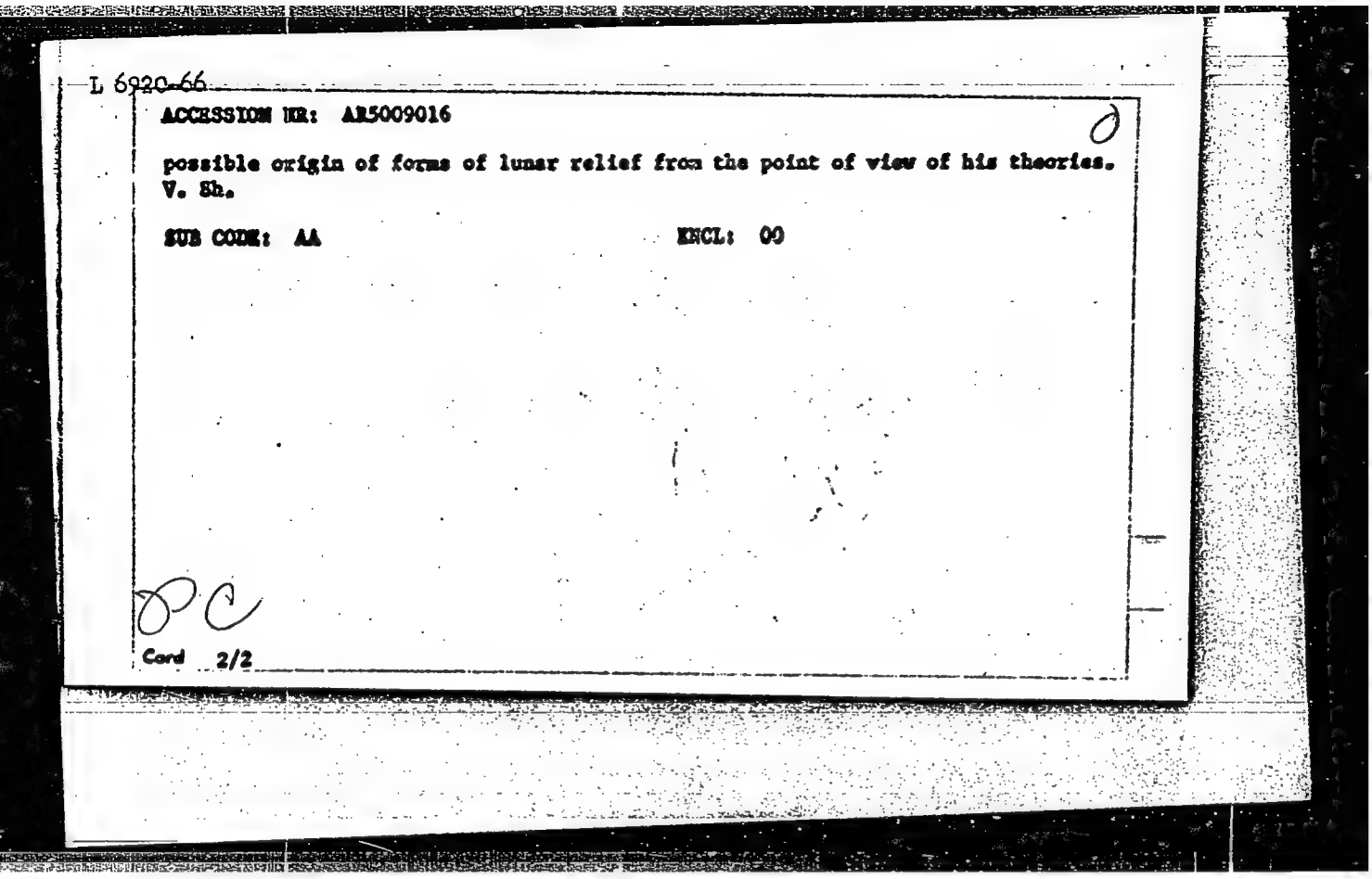
TITLE: Some considerations on the geological structure of the lunar surface

CITED SOURCE: Nauchn tr. Karagandinsk. n.-i. ugol'n. in-t, vyp. 14, 1964, 543-547

TOPIC TAGS: moon, lunar surface, lunar geology, lunar mineral, lunar tar, lunar coal, lunar bitumen, lunar relief

TRANSLATION: The author makes an attempt to apply to the moon his hypothesis of the formation of fossil coals. He believes that the latter did not develop organically but as a result of carbonification of graphite which was separated from the deep layers at some stage in the cooling of the earth. Since there was no formation of sedimentary rocks on the moon the layers of coal remained at the surface, exposed to sight. This causes the low albedo of the lunar surface. The presence of porous coke-forming coals, tar and bitumens is advanced as an explanation for other peculiarities of the lunar surface. The author speculates on the

Card 1/2



L 6920-66

ACCESSION NR: AR5009016

possible origin of forms of lunar relief from the point of view of his theories. V. Sh.

SUB CODE: AA ENCL: 00

PC

Card 2/2

L 40299-65 EWT(1)/EWG(v)/EEC(t) Po-4/Pe-5/Pae-2 NVH/GW

ACCESSION NR: AP5009016 S/0269/65/000/002/0077/0077

SOURCE: Ref. zh. Astronomiya. Otd. vyp., Abs. 2.51.563

32
B

AUTHOR: Shevyakov, N. A.

TITLE: Some considerations on the geological structure of the lunar surface 12

CITED SOURCE: Nauchn tr. Karagandinsk. n.-i. ugol'n. in-t, vyp. 14, 1964, 543-547

TOPIC TAGS: moon, lunar surface, lunar geology, lunar mineral, lunar tar, lunar coal, lunar bitumen, lunar relief

TRANSLATION: The author makes an attempt to apply to the moon his hypothesis of the formation of fossil coals. He believes that the latter did not develop organically but as a result of carbonification of graphite which was separated from the deep layers at some stage in the cooling of the earth. Since there was no formation of sedimentary rocks on the moon the layers of coal remained at the surface, exposed to sight. This causes the low albedo of the lunar surface. The presence of porous coke-forming coals, tar and bitumens is advanced as an explanation for other peculiarities of the lunar surface. The author speculates on the

Card 1/2

L 40299-65
ACCESSION NR: AR5009016

possible origin of forms of lunar relief from the point of view of his theories.
V. Sh.

SUB CODE: AA ENCL: 00

Card 2/2

SHEVYAKOV, N.A.

Some considerations about the geological structure of the lunar surface. Nauch. trudy KNIUI no.14:543-547 '64.

Formation of mineral coal. Ibid.:547-563

Petroleum is the result of the centrifugation of mineral coal seams. Ibid.:563-567 (MIRA 18:4)

SHEVYAKOV, N.L., kandidat tekhnicheskikh nauk

Coal mine lighting for hydraulic mining. Nauch.rab. VUGI no.11: 164-173 '54. (MLRA 8:11)
(Mine lighting) (Hydraulic mining)

SHEVYAKOV, N.L., kandidat tekhnicheskikh nauk

Photoelectric device for testing the lighting power of battery cap lamps. Nauch.rab. VUGI no.11:174-176 '54. (MLRA 8:11)
(Electric lamps, Portable)

SHEVYAKOV, N.L., kandidat tekhnicheskikh nauk.

Device for testing light flux in miner's battery headlamps. Svetotekhnika 3 no.3:26-27 Mr '57. (MLRA 10:3)

1. Vsesoyuznyy ugol'nyy institut.
(Electric lamps. Portable)

SHEVYAKOV, M.L., kand. tekhn. nauk

Improving the lighting properties of miners' head lamps equipped with storage batteries. Svetotekhnika 4 no. 8:14-17 Ag '58. (MIRA 11:7)

1. Vsesoyuznyy ugol'nyy institut.
(Electric lamps, Portable)

SHEVYAKOV, N.L., kand. tekhn. nauk

Improving mine lamp houses. Ugol' 34 no.9:18-20 S '59.
(MIRA 12:12)
(Electric lamps, Portable)
(Coal mines and mining--Safety measures)

POTIYEV, Mikhail Mikhaylovich, kand.tekhn.nauk; SHEVYAKOV, Nikolay L'vovich, kand.tekhn.nauk; MIRSKAYA, V.V., red.izd-va; SHKLYAR, S.Ya., tekhn.red.; SABITOV, A., tekhn.red.

[Mine lighting] Rudnichnoe osveshchenie; spravochnik. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 152 p. (MIRA 14:12)
(Mine lighting)

TOKAROVSKIY, D.I., inzh.; SHEVYAKOV, N.L., kand. tekhn. nauk

New "Svet-2" lamp for lighting mine shafts. Shakht. stroi. 7 no.11: 16-18 N'63 (MIRA 17:7)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut podzemnogo i shakhtnogo stroitel'stva (for Tokarovskiy). 2. Institut gornogo dela imeni A.A. Skochinskogo (for Shevyakov).

SHEVYAKOV, A. N., (Engr)

Mining Engineering

Dissertation: "Automatization of Forge-Stamping Production and Basic Principles of the Automatic Operation Cycle." Cand Tech Sci, Mowcow Order of Labor Red Banner Inst of Steel imeni I. V. Stalin, 8 Apr 54. (Vechernyaya Moskva Moscow, 30 Mar 54)

SO: SUM 213, 20 Sep 1954

SHEVYAKOV, N.N., dots., kand. tekhn. nauk.

Efficiency of automatic combination forging and stamping machines. Sbor. Inst. stali no.36:414-440 '57. (MIRA 10:12)

1. Kafedra obshchego mashinostroyeniya Moskovskogo instituta stali im. Stalina.

(Machine tools) (Power presses)

SHEVYAKOV, N.N.

Output of automatic machines and automatic production lines in case of combined extracyclic operations. Kuz.-shtam.proizv. 1 no.1:31-35 Ja '59. (MIRA 12:10)
(Forging) (Sheet-metal work) (Automatic control)

KRUZHKOV, V.A., dots.; SHEVYAKOV, N.N., dots., red.

[Designing of parts and mechanisms for hoisting and conveying machinery] Raschety detalei i mekhanizmov pod"emno-transportnykh mashin. Pod red. N.N.Sheviakova. Moskva, Mosk. in-t stali, 1960. 74 p. (MIRA 14:10)

(Hoisting machinery) (Conveying machinery)

SHEVYAKOV, N.N., dots.; ANTSIFEROV, V.G., starshiy prepodavatel'

[Design of reducing worm gears; methodological manual] Raschet cherviachnykh reduktorov; metodicheskoe posobie. Pod red. N.N.Sheviakova. Moskva, Mosk.in-t stali, 1961. 37 p. (MIRA 15:8)
(Gearing, Worm)

SHIKHALEV, N.I.; PUKHOV, A.P.; SHEVYAKOV, N.N.; KOSHELEV, F.F.; NOVIKOV, M.I.

Continuous action proportioning unit for free flowing materials. Kauch. i rez. 24 no.5:46-48 My '65. (MIRA 18:9)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

SHEVYAKOV, N.P.; DENISYUK, S.A. (Sverdlovsk, Nizhniy Tagil)

Experience in the use of a uniform methodology of clothing design and construction in the tailoring of custom made clothing. Shvein. prom. no.3:30-32 My-Je '64. (MIRA 17:9)

KOROLEVICH, Ye.M., SHEVYAKOV, N.S. (Moscow)

Differential diagnosis of diseases of the lesser circulation and disorders of cerebral circulation. Vrach. delo no.5:537-539 My '58 (MIRA 11:7)

1. Gorodskaya klinicheskaya bol'nitsa No.6.
(BLOOD--CIRCULATION, DISORDERS OF)

SHEVYAKOV, P. E. -- "The Effect of Local Admixtures on the Sulfatic Stability of Portland Cement." Min Higher Education USSR, Central Asiatic Polytechnical Inst, Tashkent, 1956. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No 44, October 1956

SHEVYAKOV, P.Ye.; KANTSEPOL'SKIY, I.S.

Effect of various concentrations of magnesium sulfate on the stability of portland cement and gliezh-portland cement. Uzb. khim.zhur. no.6:85-89 '58. (MIRA 12:2)

1. Institut khimii AN UzSSR.
(Portland cement) (Magnesium sulfate)

SHEVYAKOV, P.Ye.

Sulfate resistant ferrite portland cement. Uzb. khim. zhur. no.2: 76-84 '59. (MIRA 12:7)

1. Institut khimii AN UzSSR.
(Portland cement)

KANTSEPOL'SKIY, I.S.; ZHABITSKIY, M.S. [deceased]; SHEVYAKOV, P.Ye.

The role of the sulfoaluminate of calcium and gypsum in the sulfate corrosion of cements. Kor. tsem. i mery bor'by s nei no.1: 15-26 '61. (MIRA 17:2)

SHEVYAKOV, S.D.

Automatic pumping of condensate and pumping out waste water from cleaners. Elek.sta. 28 no.9:85 S '57. (MIRA 10:11)
(Electric power plants) (Pumping machinery)

SHEVYAKOV, S.I., dotsent, kandidat tekhnicheskikh nauk.

Calculating joint-operation characteristics of gas turbines and compressors. [Trudy] MVTU no.27:141-158 '54. (MLRA 7:11)
(Gas turbines) (Thermodynamics) (Compressors)

SHEVYAKOV, S.I.

Letter to the editor. Teploenergetika 3 no.1:62 Ja '56. (MLRA 9:2)
(Gas turbines)

SOV/124-58-8-8614 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 38 (USSR)

AUTHOR: Shevyakov, S.I.

TITLE: A Theoretical Study and Calculation of a Gas Turbine (Teoreticheskoye issledovaniye i raschet gazovoy turbiny)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Doctor of Technical Sciences, presented to the Mosk. vyssh. tekhn. uch-shche im. N.E. Baumana (Moscow Technical College im. N.E. Bauman), Moscow, 1957

ASSOCIATION: Mosk. vyssh. tekhn. uch-shche im. N.E. Baumana (Moscow Technical College im. N.E. Bauman), Moscow

Card 1/1

24(5) SOV/159-58-3-14/31

AUTHOR: Shevyakov, S.I.

TITLE: Analytical Method of Calculating the Air-Gas Flow Area in Multi-Stage Gas Turbines

PERIODICAL: Nauchnyye doklady vysshey shkoly, Mashinostroyeniye i priborostroyeniye, 1958, Nr 3, pp 91-101 (USSR)

ABSTRACT: The author explains a method for calculating the air-gas flow area in one- and two-shaft, multi-stage gas turbines, providing a higher turbine discharge capacity and improving the turbine economy. This method is a generalization and improvement of a number of already existing methods. Using this method a great number of problems connected with calculating and investigating the air-gas flow area of gas turbines may be solved with greater accuracy and within less time. The dependences obtained may also be applied for calculating turbines working at changing operating conditions. The author considers a multi-stage, single-shaft gas turbine, whose stationary and moving blades are located coaxially with the turbine shaft. The out-

Card 1/2

An Analytical Method of Calculating the Air-Gas Flow Area in Multi-Stage Gas Turbines

let edges of the stationary blades are equal in height to the inlet edges of the rotor blades. The gas flow in the axial space between the turbine stages is considered as an adiabatic one without losses, whereby the gas particles in the space move along cylindrical surfaces coaxial with the turbine shaft. The author first presents the theoretical principles of the turbine calculation, determining the degree of reactivity and the efficiency of a turbine stage. Then, he presents characteristic equations for a multi-stage turbine. Finally, the author presents a calculation of gas parameters by the blade height. There are 3 diagrams, 7 graphs and 1 Soviet reference.

This article was presented by the Kafedra "Grafika" Moskovskogo vysshego tekhnicheskogo uchilishcha imeni Baumana (Chair "Graphics" of the Moscow Higher Technical School imeni Bauman)

SUBMITTED: March 13, 1958

S/114/63/000/001/005/007
D262/D308

AUTHORS: Shevyakov, S.I., Doctor of Technical Sciences, Professor, Bulanenkov, L.F., Engineer

TITLE: Design of a gas turbine of increased power rating

PERIODICAL: Energomashinostroyeniye, no. 1, 1963, 41-43

TEXT: The article, published as a discourse in Teploenergetika, 1959, no. 10, by V.V. Uvarov et al is reviewed critically and many of its data, conclusions, and recommendations are analyzed and found incorrect. The stage efficiency particularly appears to be too high; to prove this point the analytical method of calculation, applying the energy and Euler equations is presented. The suggested application of special diffusors is also considered to be unjustified. There are 3 figures and 3 tables.

Card 1/1

SHEVYAKOV, S.I., doktor tekhn.nauk; BULANENKOV, L.F., inzh.

Design of a gas turbine with increased power rating. Energomashinostroenie 9 no.1:41-43 Ja '63. (MIRA 16:3)
(Gas turbines)

L 4309-66 EPA/EWT(m)/EWP(w)/EWP(t)/EWP(v)/T-2/EWP(k)/ETC(m) WW/EM

ACC NR: AP5026842 SOURCE CODE: UR/0286/65/000/017/0135/0135

INVENTOR: Shevyakov, S. I.

ORG: none

TITLE: Blade for turbine of turbojet engines. Class 46, No. 91453

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 135

TOPIC TAGS: turbojet, turbine blade

ABSTRACT: An Author Certificate has been issued for an application of turbojet-engine blades, shaped according to the method described in Author Certificate No. 70723. The blades increase the gas flow rate through the turbine stages and augment the engine thrust. [AV]

SUB CODE: PR/ SUBM DATE: 16Sep47/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS 4130

Card 1/1

SHEVYAKOV, V.

Sound - Recording and Reproducing

Amplifying attachment for sound pickup.
Radio No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

SHEVYAKOV, V. (Gor'kiy); DOBIN, K. (Gor'kiy).

Instrument for filling root canals with cement. Stomatologiia no.4:53 Jl.-Ag '53. (MLRA 6:9)

(Dental instruments and apparatus)

MODZOLEVSKIY, Igor' Vladimirovich; BARSEGOV, A.A.; KARPOV, I.V.; KARTSEV, I.T.; KRYLOV, N.M.; NIKOLAYEV, I.V.; REVICH, V.I.; SHEVYAKOV, V.A.; SHOKHIN, O.A.; CHUSOV, A.I.; GORODNICHEV, N.G., redaktor; CHERNYSHEV, V.I., redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[General course on railroads] Obshchii kurs zheleznykh dorog. Izd. 2-e, perer. Moskva, Gos. transportnoe zhel-dor. izd-vo, 1954. 316 p. (Railroads) (MLRA 8:3)

MODZOLEVSKIY, Igor' Vladimirovich, inzh.; BARSEGOV, A.A.; KARPOV, I.V.; KARTSEV, I.T.; KRYLOV, N.M.; NIKOLAYEV, I.V.; REVICH, V.I.; SHEVYAKOV, V.A.; SHOKHIN, O.A.; CHUSOV, A.I.; GUBAREVA, N.T., red.; BOBROVA, Ye.N., tekhn.red.

[General course in railroad engineering] Obshchii kurs zheleznykh dorog. Izd.3., perer. Pod obshchei red. I.V.Modzolevskogo. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 290 p. (MIRA 13:12)
(Railroad engineering)

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S/089/61/011/002/001/015
B102/B201

AUTHORS: Volkov, V. S., Luk'yanov, A. S., Chepkunov, V. V., Shevyakov, V. P., Yamnikov, V. S.

TITLE: Use of fissile absorbers in nuclear reactors

PERIODICAL: Atomnaya energiya, v. 11, no. 2, 1961, 109-121

TEXT: The present article gives a survey of usefulness and purpose of the use of fissile absorbers in reactors. Introducing fissile absorbers into the core is one of the possible methods of compensating for the initial reactivity excess. For technological and chemical reasons, only few elements are eligible as absorbers of this kind: boron, hafnium, europium, gadolinium, samarium, cadmium, and mercury. Data on these fissile absorbers are compiled in a table taken from Ref. 1 (Nucl. Sci. and Engng., 4, No. 3, 357 (1958)). Experience and investigation results gained in the USA in various reactors are dealt with. Apart from reports made at the Second Geneva Atomic Conference (1958) (Papers nos. 455, 1017), the material concerned was taken exclusively from American publications: Nucl. Engng. 4, No. 34, 11 (1959), Nucleonics, 16, No. 1, 100, 102 (1958). The various

Card 1/3

Use of fissile absorbers in ...

technical and design problems involved in the use of fissile absorbers are now discussed. These problems include the exact dosing of the absorber, its resistance to corrosion, taking account of the change in mechanical properties of absorbers while in operation; use of boron leads to the formation of Li and He, which must also be taken into account; additional difficulties arise with fuel regeneration. The remaining problems are of a purely technical nature, such as a removal of heat produced in absorbers. In most cases, boron is used in the form of alloys or chemical compounds, dispersed in some materials. The properties of boron in stainless steels and boron-titanium alloy (1.75% by weight of B^{10}) have repeatedly been studied (Nucl. Sci. Engng. 4, No. 3, 386, 402, 415 (1958)). Irradiating an alloy containing boron (0.56% by weight of B^{10}) reduces its plasticity considerably: to half its value with an integral flux of $1.35 \cdot 10^{10}$ n/cm^2, and to one-fifth at $5.87 \cdot 10^{20}$ n/cm^2. The volume of boron-titanium alloys increases up to 4.3%, depending on burn-up and boron content. Similar conditions are found for boron-zirconium alloys (Nucl. Sci. and Engng. 6, no. 3, 1967 (1959); Reactor core materials, 2, no. 1, 26 (1959)). Neutron capture in the absorber plays the principal role in a theoretical treatment of reactors using fissile absorbers. For the case of only thermal neutrons

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Use of fissile absorbers in ...

being absorbed, some relations are presented, which were taken from lectures by A. Radkowsky, J. Stewart, and P. Zweifel at the Second Geneva Atomic Conference (1958) [Abstracter's note: The numbers of the papers are not given.] Various fuel and absorber distributions in the core are discussed briefly. Finally, German investigations (Von Winkel et al. Atomenergie, 4, 3, 93 (1959)) are dealt with (Study of the linear radial distribution of an absorber, and its distribution according to a Bessel funotion). It is finally stated that the use of fissile absorbers still meets with certain difficulties which, however, can probably be overcome. There are 7 figures, 11 tables, and 18 references: 4 Soviet-bloc and 14 non-Soviet-bloc. The most important references to English-language publications are all mentioned in the abstract.

SUBMITTED: October 8, 1960

Card 3/3

ROSENGAUZ, D.Ye.; SHEVYAKOV, V.V.

Case of a gigantic mucocele in the frontal and ethmoid sinuses of the nose. Zhur. ush., nos. i gorl. bol. 23 no.4: 83-84 Jl-Ag'63. (MIRA 16:10)

1. Iz kliniki Khar'kovskogo instituta meditsinskoy radiologii (direktor - kand.med.nauk V.I.Shantyr')
(NOSE, ACCESSORY SINUSES OF — DISEASES)

KARPOVA, G.V. [Karpova, H.V.]; SHEVYAKOVA, E.P. [Shev'iakova, E.P.]

Sandstones with thuringite from the Araucarites series (C_3^3) of the intermediate region of the Greater Donets trough. Dop. AN URSR no.3:369-372 '64. (MIRA 17:5)

1. Khar'kovskiy gosudarstvennyy universitet i trest "Kharkivnaftorozvidka". Predstavleno akademikom AN UkrSSR O.S. Vyalovym.

KARPOVA, G. V.; SHEVYAKOVA, E. P.

New data on Upper Carboniferous sediments in the transition area of the Greater Donets trough. Dokl. AN SSSR 155 no. 2: 333-336 Mr '64. (MIRA 17:5)

1. Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo. Predstavleno akademikom D. I. Shcherbakovym.